

Modern Photoemission – Its Potential and Challenges

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Photoemission spectroscopy has emerged as a leading tool to push an important frontier of modern physics – the novel quantum phenomena in solids. In the past decade, enormously improved resolution and experimental collaborations have allowed this technique to help setting the intellectual agenda by testing new ideas, discovering surprises, and challenging orthodoxies. There is little doubt that this technique is going to be at the focal point of the necessary debates leading to new paradigms of physics. We will review the recent progress in this field, with focus on its potential and the challenges we will face in order to bring this technique to the next level.